

Title (en)
IMPROVED METHOD OF MAPPING GLYCANS OF GLYCOPROTEINS IN SERUM SAMPLES

Title (de)
VERBESSERTES VERFAHREN ZUR KARTIERUNG VON GLYCOPROTEINEN IN SERUMSPROBEN

Title (fr)
PROCÉDÉ AMÉLIORÉ DE MISE EN CORRESPONDANCE DE GLYCANES DE GLYCOPROTÉINES DANS DES ÉCHANTILLONS DE SÉRUM

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Application
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Abstract (en)
[origin: EP2975401A1] The present invention relates to a method for analyzing glycans of a recombinant glycoprotein in a liquid sample of a mammal. Specifically the method comprises a step of affinity purifying the recombinant glycoprotein from the sample, enzymatically releasing a glycan containing fragment from the immobilized glycoprotein, adding a reference standard containing isotopically labeled glycans, fluorescently label the glycans and analyzing the glycans using LC-MS. The present invention also relates to a method further comprising analyzing the glycans of the immobilized recombinant glycoprotein fragment, further comprising a pre-clearing step of the liquid sample, and releasing the glycans from the immobilized recombinant glycoprotein fragment. The methods allow for the use of a small sample volume and the possibility to operate with high throughput, such as in a 96-well plate sample preparation and are therefore suited to measure pharmacodynamics parameters of a recombinant glycoprotein in a mammal in clinical or pre-clinical studies.

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